Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: P1045738

Luminaire Tested: **FFX-CLB-40-722-U-FR-T5-UPLR-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045738
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-722-U-FR-T5-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3440.3 lumens
Efficiency:	N/A
Efficacy:	87.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U3 - G2

Input Watts (W):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

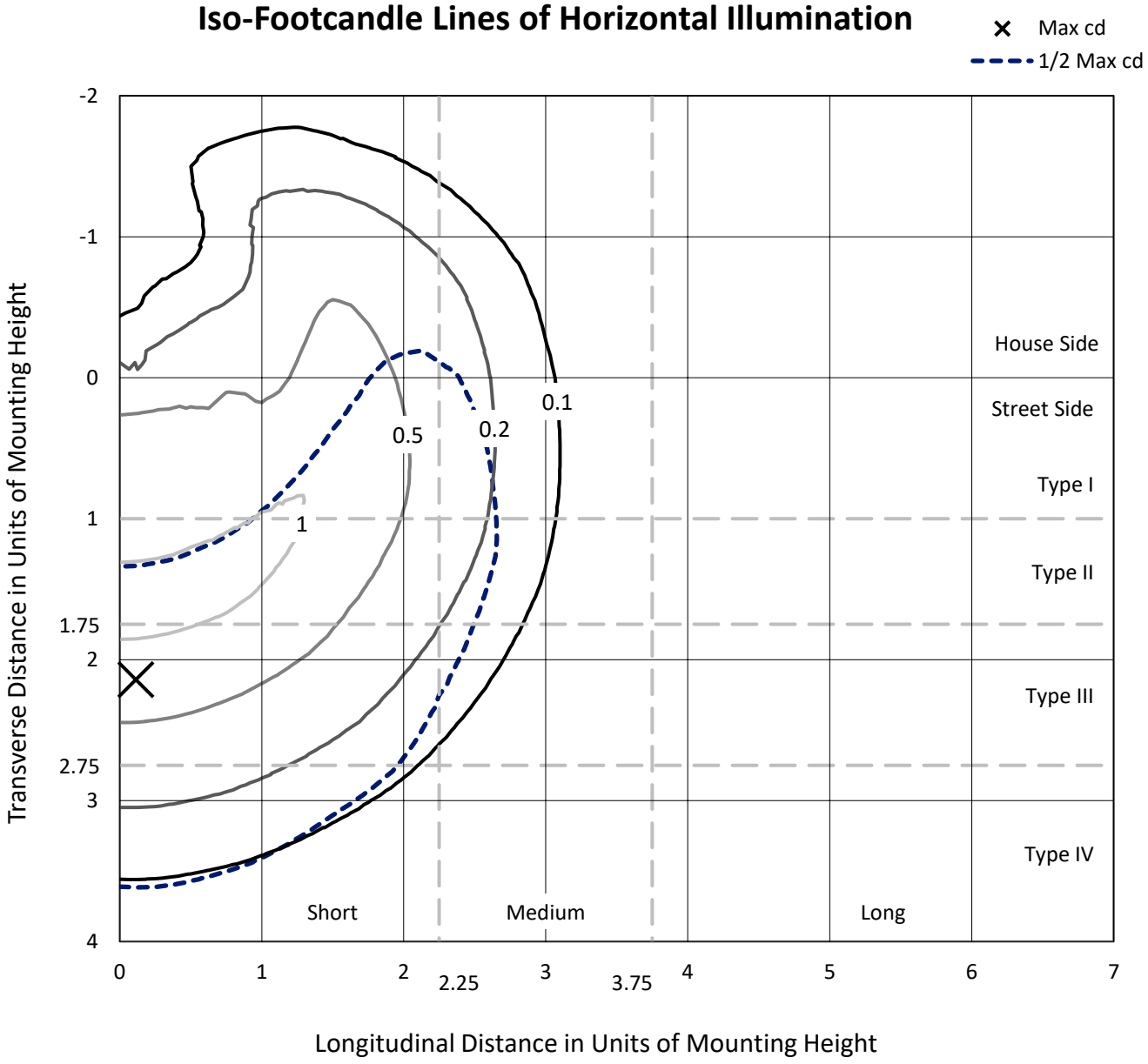


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Iso-Footcandle Lines of Horizontal Illumination



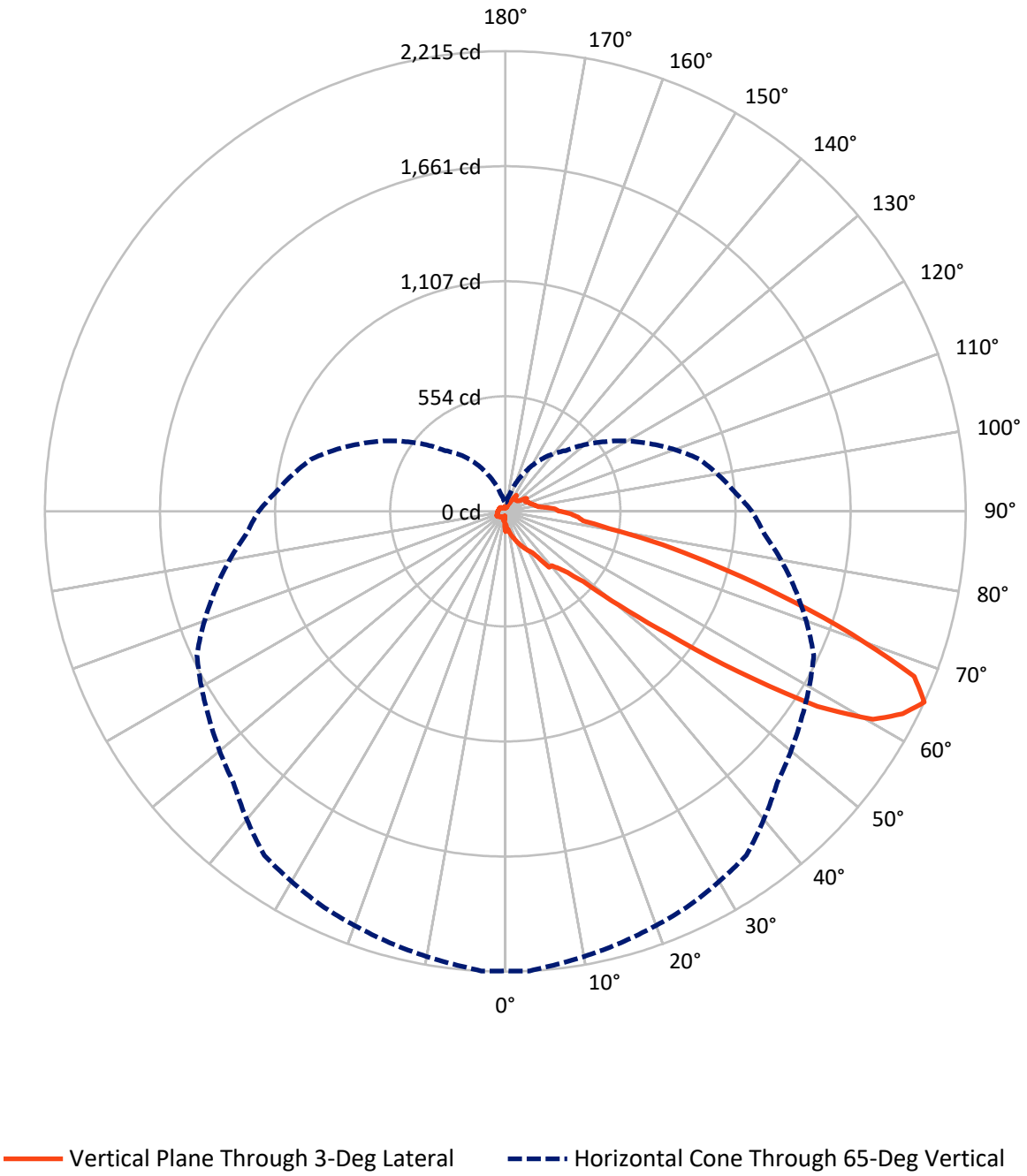
Based on 15 foot mounting height. Maximum calculated value = 1.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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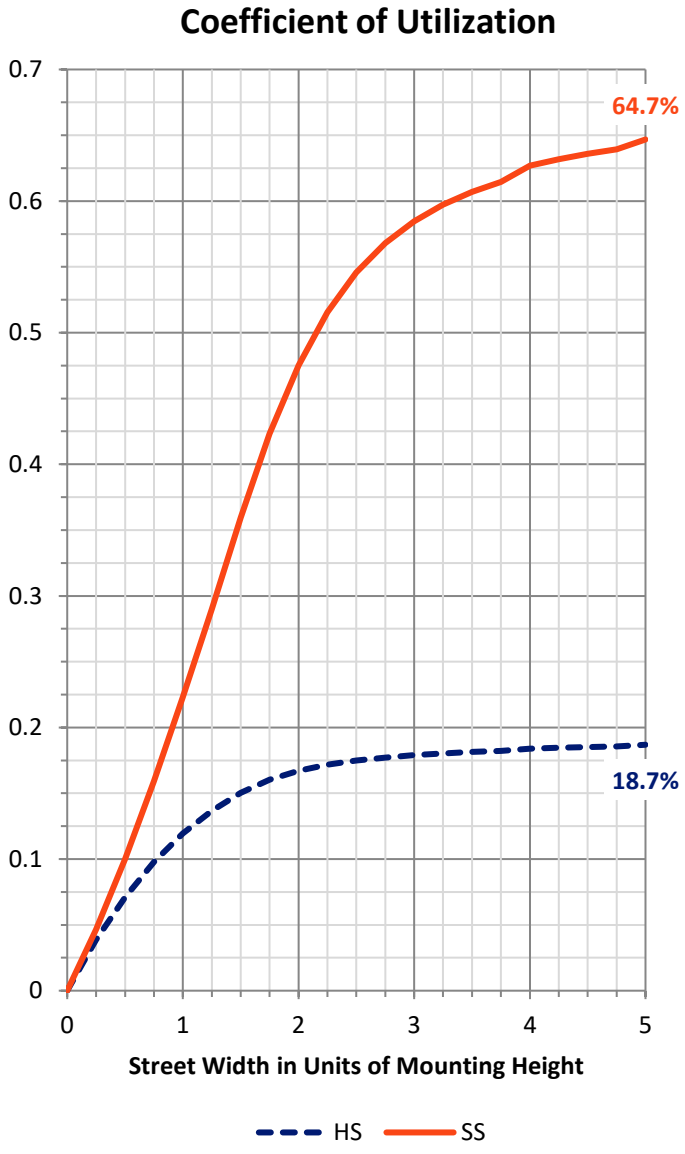
REPORT NUMBER: P1045738
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	665.6	144.7	810.3
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	2320.9	309.0	2630.0
	% Fixture	67.5	9.0	76.4
Total	Lumens	2986.5	453.7	3440.3
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.2
10°-20°	23.4	0.7
20°-30°	52.3	1.5
30°-40°	105.7	3.1
40°-50°	212.3	6.2
50°-60°	681.4	19.8
60°-70°	1086.8	31.6
70°-80°	591.2	17.2
80°-90°	227.2	6.6
90°-100°	135.4	3.9
100°-110°	89.9	2.6
110°-120°	71.6	2.1
120°-130°	59.7	1.7
130°-140°	41.1	1.2
140°-150°	33.2	1.0
150°-160°	14.8	0.4
160°-170°	6.0	0.2
170°-180°	2.0	0.1
0°-90°	2986.5	86.8
0°-180°	3440.3	100.0



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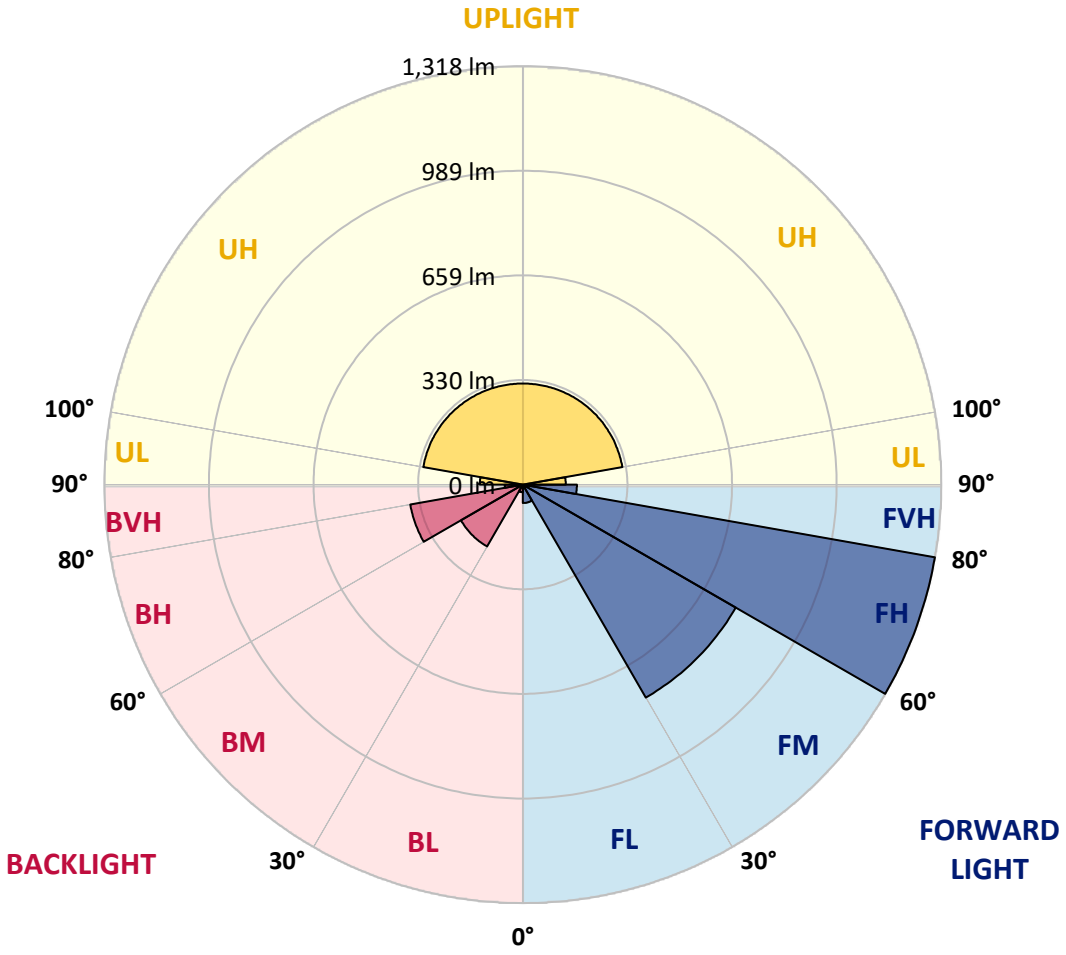
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	58.0	1.7			
FM	(30°-60°)	774.5	22.5			
FH	(60°-80°)	1318.1	38.3			G1/1800
FVH	(80°-90°)	170.3	5.0			G2/225
BL	(0°-30°)	23.9	0.7	B0/110		
BM	(30°-60°)	224.9	6.5	B1/1000		
BH	(60°-80°)	359.9	10.5	B1/500		G1/500
BVH	(80°-90°)	56.9	1.7			G1/100
UL	(90°-100°)	135.4	3.9		U3/500	
UH	(100°-180°)	318.3	9.3		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	97.2	*97.2*	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
2.5°	62.8	*62.5*	63.6	69.2	83.4	88.1	84.2	77.5	76.3	83.4	88.9
5°	85.8	*85.0*	84.2	78.7	73.1	75.9	83.8	85.8	77.9	63.2	53.8
7.5°	87.0	*86.2*	86.6	86.6	85.4	80.2	74.3	77.1	83.8	74.7	58.9
10°	96.8	*96.4*	96.4	96.0	94.9	93.3	92.9	87.0	76.7	68.8	65.6
12.5°	113.0	*113.0*	112.7	112.3	111.1	108.3	104.7	100.0	96.8	87.4	77.5
15°	126.1	*124.9*	125.7	124.5	122.5	121.0	116.6	111.5	102.0	95.7	87.0
17.5°	138.7	*138.7*	139.1	137.2	134.8	133.6	128.9	122.1	113.0	102.0	93.7
20°	154.5	*153.4*	153.4	151.4	148.6	144.7	140.3	134.4	126.9	111.9	100.8
22.5°	169.6	*170.0*	170.0	166.8	162.5	158.9	153.0	145.9	138.7	123.3	109.1
25°	186.6	*186.2*	185.8	185.4	181.0	174.7	167.2	159.7	154.5	139.5	119.8
27.5°	202.4	*201.6*	201.2	203.2	199.2	192.9	181.8	172.7	167.2	151.8	129.6
30°	219.8	*219.4*	219.4	220.2	218.6	208.7	196.8	186.2	178.3	162.8	139.1
32.5°	235.2	*234.4*	234.8	237.9	237.6	224.9	214.2	201.2	191.3	179.1	153.0
35°	273.1	*271.5*	273.9	278.7	282.2	268.8	254.2	234.0	219.0	206.3	179.4
37.5°	341.5	*341.9*	342.7	336.4	322.9	313.0	305.9	289.7	271.2	249.8	218.2
40°	344.3	*343.9*	345.9	355.3	360.9	343.9	327.3	308.3	303.6	285.4	245.1
42.5°	376.3	*373.9*	375.9	385.0	392.5	382.2	367.6	335.6	318.2	302.0	268.8
45°	422.1	*419.4*	422.9	424.5	422.9	411.9	414.2	388.1	371.9	339.1	292.9
47.5°	492.1	*504.8*	506.7	507.1	522.9	507.9	498.4	473.5	436.8	397.6	345.1
50°	690.9	*711.5*	704.4	697.6	698.8	687.4	674.3	639.9	590.5	524.5	449.4
52.5°	986.2	*978.3*	979.5	983.8	994.9	943.9	921.8	870.0	790.1	711.1	602.8
55°	1347.5	*1360.9*	1360.1	1374.3	1372.4	1317.4	1247.5	1160.5	1044.3	928.5	800.4
57.5°	1794.1	*1770.4*	1754.6	1728.5	1706.0	1631.3	1585.0	1490.9	1337.2	1163.3	998.8
60°	2044.7	*2031.7*	2027.7	1991.7	1960.9	1869.2	1773.9	1672.0	1551.8	1346.3	1159.7
62.5°	2138.8	*2145.1*	2139.6	2116.2	2095.7	2015.4	1855.4	1744.3	1636.8	1439.2	1242.7
65°	*2211.1*	*2214.7*	*2202.0*	*2149.0*	*2092.9*	*2021.0*	*1848.6*	*1739.2*	*1637.2*	*1442.7*	*1250.6*
67.5°	2122.6	*2121.8*	2111.9	2035.6	1940.7	1869.6	1713.1	1595.3	1508.7	1346.3	1160.9
70°	1762.5	*1764.9*	1766.8	1710.7	1606.7	1553.8	1395.3	1294.1	1219.4	1079.1	945.9
72.5°	1379.9	*1387.0*	1390.1	1346.3	1269.2	1214.6	1108.7	1032.8	963.3	851.8	747.0
75°	1038.0	*1045.1*	1043.1	1015.8	961.7	946.7	895.3	830.4	772.3	685.8	597.2
77.5°	778.7	*772.7*	771.2	744.7	691.3	695.3	680.6	643.5	598.4	547.4	485.8
80°	515.8	*510.7*	500.4	509.5	505.1	492.5	468.4	449.4	431.6	401.2	367.6
82.5°	379.5	*377.9*	375.9	370.0	366.0	362.9	352.2	321.7	300.4	283.0	262.9
85°	354.9	*350.2*	351.0	340.7	328.5	317.4	309.1	296.1	279.5	252.2	222.9
87.5°	309.9	*309.9*	307.5	300.4	288.1	285.4	279.5	270.4	260.5	239.5	213.4
90°	257.7	*256.1*	256.1	255.7	253.0	251.0	239.5	231.2	226.9	205.9	187.8
92.5°	237.9	*237.2*	235.6	233.6	225.7	224.1	212.7	202.0	192.5	179.4	165.2
95°	193.3	*194.9*	191.3	190.9	187.0	184.6	175.5	170.4	164.0	153.4	140.3
97.5°	163.2	*160.9*	161.3	157.7	153.8	152.2	146.6	139.1	133.2	124.9	115.4
100°	149.8	*149.4*	148.6	145.9	140.3	136.8	130.8	123.7	117.8	110.3	102.4
102.5°	141.1	*140.7*	140.3	137.9	131.6	129.6	124.1	118.6	113.4	106.7	96.4
105°	132.4	*132.0*	131.2	128.5	124.5	122.5	117.4	114.2	109.1	103.2	93.3
107.5°	124.5	*124.5*	124.1	121.0	118.6	117.0	111.9	109.1	103.6	98.4	88.9
110°	120.6	*120.6*	120.2	117.8	113.0	110.7	105.9	102.4	97.2	92.1	84.6

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	116.2	*116.6*	116.6	117.4	105.9	101.6	97.6	94.9	90.5	85.8	79.4
115°	106.3	*106.7*	106.3	110.3	106.3	100.4	98.0	93.3	87.7	80.2	73.5
117.5°	107.1	*107.1*	107.9	109.9	107.9	102.4	97.2	91.3	86.6	79.1	73.1
120°	121.3	*120.6*	120.6	116.6	115.8	110.7	107.1	100.8	92.9	85.4	77.1
122.5°	116.6	*116.2*	116.6	110.3	109.9	108.7	107.5	106.3	96.0	91.7	81.0
125°	93.3	*92.5*	92.1	89.7	93.7	90.9	90.1	92.9	86.2	82.2	76.3
127.5°	83.4	*82.6*	82.2	81.4	83.8	79.1	78.3	79.1	73.9	69.2	65.6
130°	79.8	*78.7*	78.7	81.4	85.0	81.0	76.7	73.5	71.5	68.4	62.5
132.5°	75.5	*75.5*	75.9	79.4	85.8	81.4	73.5	67.2	66.4	66.8	64.0
135°	74.3	*73.9*	74.3	73.1	72.7	70.4	66.8	61.7	60.5	63.6	60.5
137.5°	76.3	*75.9*	75.5	72.3	68.8	66.8	66.0	62.8	59.7	57.7	54.5
140°	75.5	*75.5*	75.1	74.3	71.9	68.0	67.2	64.0	60.9	57.3	53.4
142.5°	76.7	*77.9*	78.7	79.4	78.7	74.3	70.0	64.8	61.3	59.3	54.9
145°	94.5	*94.5*	94.5	92.9	90.1	86.6	83.4	79.8	77.1	70.8	64.8
147.5°	78.3	*78.3*	77.9	78.3	78.3	76.7	76.3	75.1	75.5	72.3	66.4
150°	54.2	*55.3*	55.3	57.3	58.1	57.3	57.3	58.1	56.9	56.5	53.4
152.5°	43.9	*43.5*	42.7	43.5	43.5	43.9	43.9	43.1	42.7	42.7	40.7
155°	38.7	*38.7*	38.7	38.3	37.6	37.9	38.3	38.3	37.2	36.4	34.8
157.5°	30.8	*30.4*	30.4	31.2	31.2	31.2	31.2	31.2	31.2	31.6	32.0
160°	26.1	*25.3*	25.7	25.7	26.1	26.5	26.1	26.5	26.5	26.9	26.5
162.5°	21.3	*20.9*	20.9	21.3	21.7	22.1	22.5	22.5	22.9	23.7	24.1
165°	19.0	*19.0*	19.0	19.4	19.4	19.8	20.2	20.6	21.3	22.5	22.9
167.5°	17.8	*17.8*	17.8	17.8	18.2	18.6	19.4	20.6	21.3	22.5	22.5
170°	17.4	*17.4*	17.8	17.8	17.8	18.2	19.8	20.9	21.3	21.7	21.7
172.5°	18.2	*18.2*	18.2	18.2	18.2	19.0	20.9	21.3	21.3	21.3	21.7
175°	19.0	*19.0*	18.6	18.6	19.0	19.4	19.8	21.7	22.5	22.9	23.7
177.5°	17.8	*17.8*	17.8	18.2	18.2	18.6	19.0	19.8	19.8	20.6	21.7
180°	19.8	*19.8*	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
2.5°	92.9	99.6	91.3	82.6	76.3	79.8	83.8	80.6	77.1	77.5	70.8
5°	55.7	57.3	58.1	50.6	41.9	46.6	56.9	53.4	41.1	22.9	19.8
7.5°	53.8	51.4	50.6	56.1	51.0	34.0	26.5	24.1	32.0	38.3	40.3
10°	63.6	60.9	54.9	45.1	39.9	37.6	36.8	35.2	30.4	23.7	22.5
12.5°	73.1	70.0	64.4	59.7	53.0	44.3	38.7	37.2	39.9	44.7	44.7
15°	82.6	78.3	71.1	64.8	59.7	50.2	43.1	36.8	36.0	37.2	37.2
17.5°	89.3	84.6	76.3	67.6	58.5	49.4	41.1	34.8	32.0	31.2	31.2
20°	96.0	91.7	81.8	72.3	61.3	50.6	41.1	34.4	31.2	30.0	29.6
22.5°	104.7	99.2	88.1	77.9	64.4	51.4	40.7	34.8	31.2	29.2	28.9
25°	114.6	108.3	95.7	83.4	67.6	52.2	41.1	35.2	31.6	29.2	28.9
27.5°	122.5	115.8	103.6	89.7	71.5	54.2	42.7	36.0	32.0	29.6	29.2
30°	131.6	124.5	110.7	96.4	76.3	57.3	45.9	38.3	33.6	30.4	30.4
32.5°	145.5	136.0	120.6	102.8	81.0	60.9	49.4	41.1	35.2	32.8	32.8
35°	168.0	158.5	137.9	115.0	86.2	64.4	52.2	43.9	37.2	34.0	34.0
37.5°	204.0	189.7	166.8	135.2	94.5	67.2	55.3	45.9	38.3	34.0	33.2
40°	224.9	209.1	180.2	150.2	104.7	70.8	57.7	47.4	39.1	34.4	34.0
42.5°	248.2	230.0	192.9	154.2	111.5	79.1	61.3	49.0	39.9	35.6	34.8
45°	272.7	255.3	221.7	175.1	127.3	90.5	67.2	52.2	42.3	37.2	36.4
47.5°	317.4	296.1	252.6	204.7	150.6	108.7	80.2	57.3	45.1	38.7	37.9
50°	417.8	398.0	337.6	266.0	187.8	134.8	100.4	68.0	49.4	39.9	38.7
52.5°	553.8	518.6	450.2	360.5	262.1	188.9	134.0	91.7	56.1	41.1	39.1
55°	751.4	712.3	611.1	494.1	358.9	274.3	202.8	137.9	79.8	42.3	38.7
57.5°	947.8	900.4	815.4	655.3	482.2	349.8	271.2	202.0	116.2	47.4	39.9
60°	1088.6	1030.8	925.7	779.1	585.0	411.5	306.3	220.2	129.3	48.6	41.1
62.5°	1171.6	1099.2	967.2	792.1	609.5	437.2	320.6	207.9	111.1	47.4	42.7
65°	*1186.6*	*1104.4*	*967.2*	*769.6*	*584.2*	*414.6*	*309.9*	*192.1*	*87.7*	*45.5*	*43.9*
67.5°	1100.4	1023.7	907.9	706.7	518.2	356.1	266.8	158.1	66.8	43.9	43.5
70°	903.2	845.5	751.0	577.5	420.6	289.7	212.3	121.7	54.2	41.9	41.1
72.5°	704.8	651.4	580.6	453.0	325.3	229.6	162.1	95.3	48.2	40.3	39.9
75°	554.6	514.6	456.1	357.7	244.7	173.9	122.9	71.9	43.5	39.5	38.7
77.5°	453.8	427.7	367.2	273.1	182.6	129.3	91.7	57.3	41.5	38.7	38.3
80°	353.0	331.2	293.3	204.4	130.8	97.2	72.3	50.6	40.3	38.3	37.9
82.5°	251.8	244.3	212.3	158.9	109.1	83.4	65.2	48.6	39.9	37.9	37.6
85°	210.3	199.6	175.9	137.9	100.4	79.4	62.5	47.8	39.9	37.9	37.6
87.5°	203.2	193.7	171.9	131.6	94.5	74.7	59.7	46.2	39.1	37.2	37.2
90°	179.4	170.0	153.4	118.6	87.0	69.6	55.7	43.9	37.6	35.6	35.6
92.5°	158.9	153.4	137.6	108.7	83.4	66.8	53.8	42.7	36.8	35.2	34.8
95°	134.4	129.6	117.4	98.0	78.3	63.6	52.2	41.5	36.0	34.4	34.4
97.5°	111.5	107.5	98.0	83.0	67.6	56.5	47.0	39.1	34.8	33.6	33.6
100°	98.4	95.3	87.0	74.7	62.5	53.0	45.5	38.7	34.4	32.8	32.8
102.5°	93.3	90.1	81.8	70.8	59.3	50.6	44.3	37.9	34.0	32.4	32.0
105°	89.3	86.2	78.7	67.2	56.1	48.2	41.9	37.2	33.2	32.0	31.6
107.5°	85.4	81.8	74.7	63.2	53.4	45.9	40.3	36.0	32.8	31.6	31.6
110°	81.0	77.9	71.1	60.1	51.4	44.3	39.5	35.6	32.8	31.6	31.6

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1045738
CATALOG NUMBER: FFX-CLB-40-722-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	76.3	73.1	66.8	56.9	49.4	43.1	38.7	35.2	32.8	31.6	31.6
115°	70.8	68.0	62.1	53.8	47.0	41.5	37.6	34.4	32.0	31.2	31.2
117.5°	69.2	66.0	60.1	52.6	46.2	40.3	36.8	33.6	31.6	30.8	30.8
120°	72.7	68.4	62.1	54.9	46.2	39.5	36.0	33.2	31.2	30.4	30.4
122.5°	77.5	73.9	66.8	53.8	44.7	38.7	35.2	32.8	30.8	30.4	30.4
125°	73.1	70.8	64.0	49.8	43.1	37.9	34.8	32.8	31.2	30.4	30.4
127.5°	64.0	61.7	56.5	47.4	41.5	37.2	34.4	32.8	31.6	30.4	30.4
130°	60.5	57.3	52.6	45.5	39.9	36.0	34.0	32.8	31.6	30.0	29.6
132.5°	62.1	59.3	51.8	42.7	37.6	34.4	32.8	32.0	29.6	28.1	27.7
135°	58.5	55.7	48.2	40.7	36.4	34.0	32.4	30.0	27.7	25.7	25.7
137.5°	52.2	49.0	44.7	39.1	36.0	34.8	32.8	29.6	26.5	24.9	24.9
140°	51.8	48.2	44.3	38.7	35.2	32.0	29.6	26.5	24.1	23.3	22.9
142.5°	52.6	50.2	44.7	38.3	33.6	29.6	26.9	24.5	22.9	21.7	21.7
145°	60.9	57.3	50.2	41.9	36.4	31.6	27.7	24.5	22.1	20.2	19.8
147.5°	62.8	59.3	53.0	45.9	38.7	32.8	27.3	23.3	20.2	18.6	18.2
150°	52.6	50.2	46.6	41.1	34.8	28.9	24.1	20.6	18.6	17.8	17.4
152.5°	39.9	39.1	36.8	32.8	28.5	24.5	21.3	19.4	18.2	17.8	17.4
155°	34.0	33.6	31.2	28.1	24.5	21.7	19.8	18.6	17.8	17.8	17.4
157.5°	31.6	30.8	28.9	25.7	22.5	20.9	19.0	18.2	17.8	17.8	17.8
160°	26.5	25.7	24.1	22.9	20.9	19.8	18.6	18.2	17.8	17.8	17.4
162.5°	23.7	22.9	22.1	20.9	20.6	20.2	19.8	19.0	18.6	18.2	18.2
165°	22.5	22.1	20.9	20.6	20.6	20.9	20.9	20.2	19.4	18.6	18.6
167.5°	22.1	21.7	20.9	20.6	21.3	21.7	22.1	21.3	20.6	19.4	19.0
170°	22.1	22.1	21.7	21.3	21.7	22.1	22.5	22.5	22.1	21.3	21.3
172.5°	22.1	22.5	22.1	22.1	22.1	22.1	22.1	22.9	22.9	22.5	22.5
175°	23.7	23.7	22.5	22.1	22.5	22.9	23.3	22.9	22.9	23.3	23.3
177.5°	21.7	22.5	24.1	24.5	25.3	25.3	24.5	24.1	22.9	22.5	22.5
180°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

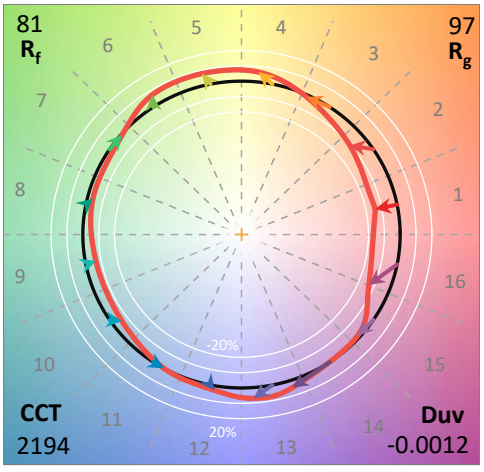
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-7
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	2194	CRI (Ra):	76.9		
CIE u':	0.2907	R1:	75.7	R9:	-13.4
CIE v':	0.5343	R2:	91.6	R10:	84.3
Duv:	-0.0012	R3:	88.2	R11:	74.6
CIE x:	0.5035	R4:	73.5	R12:	85.6
CIE y:	0.4113	R5:	77.0	R13:	79.4
CIE z:	0.0852	R6:	93.6	R14:	93.9
Peak Wavelength (nm):	608	R7:	73.2	R15:	65.4
Dominant Wavelength (nm):	587	R8:	42.7		
Purity:	74.59755				

Rf:	81
Rg:	96.6



Test Conditions

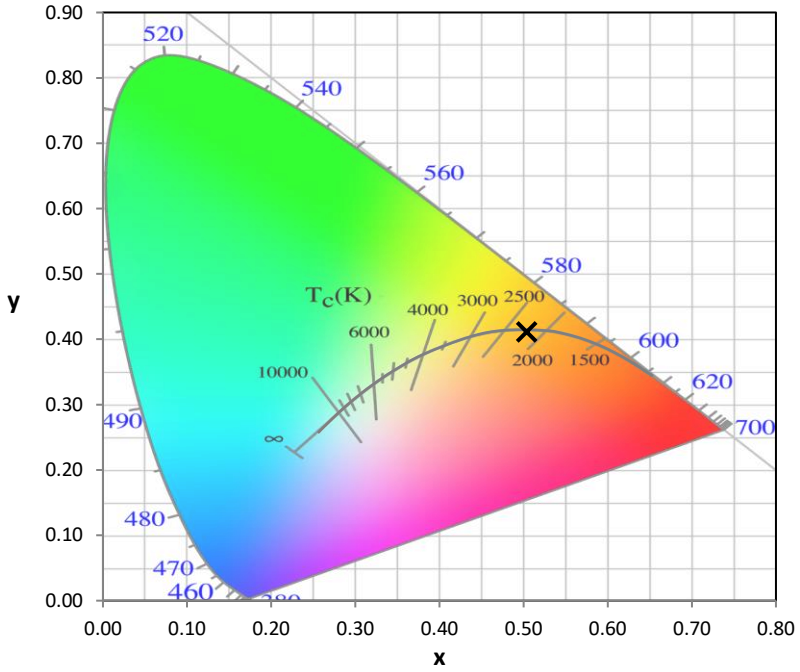
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

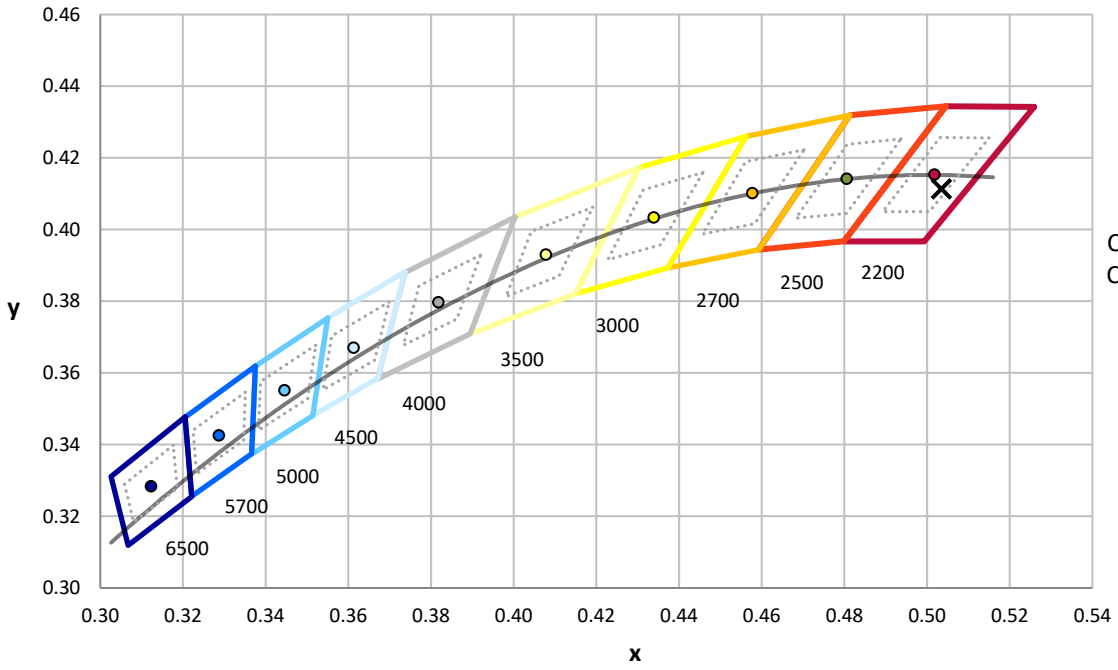
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2501-332-7

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

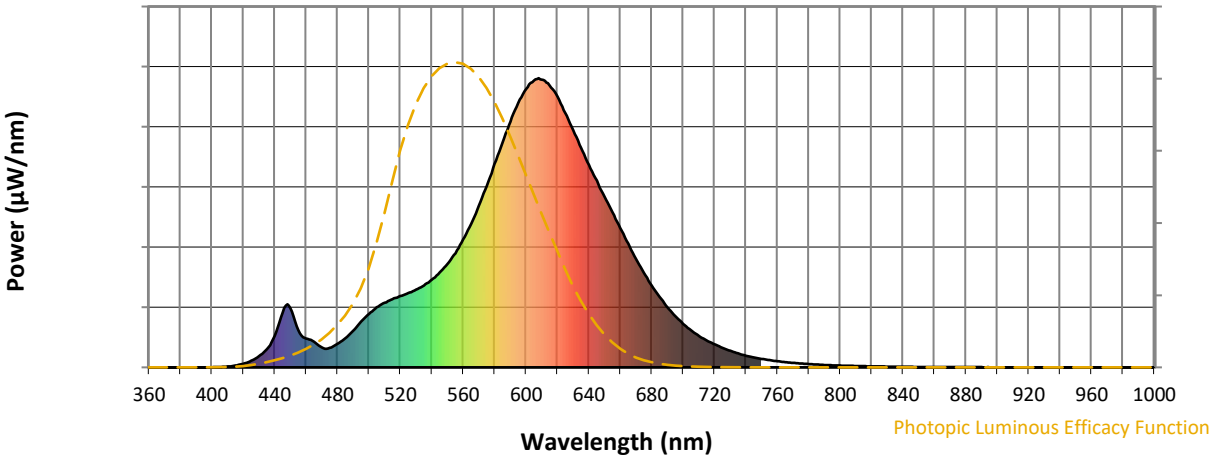


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

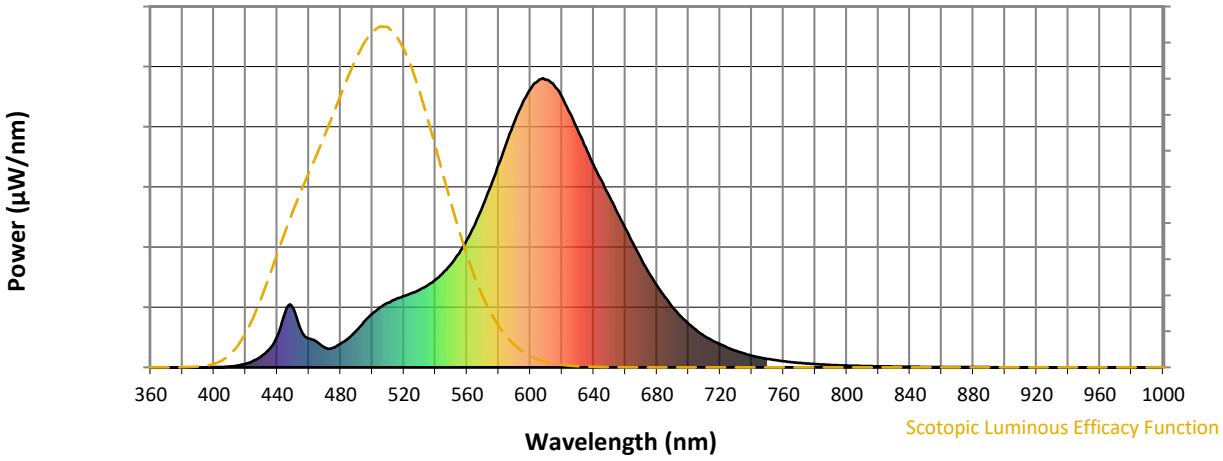


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Scotopic Flux vs. Wavelength

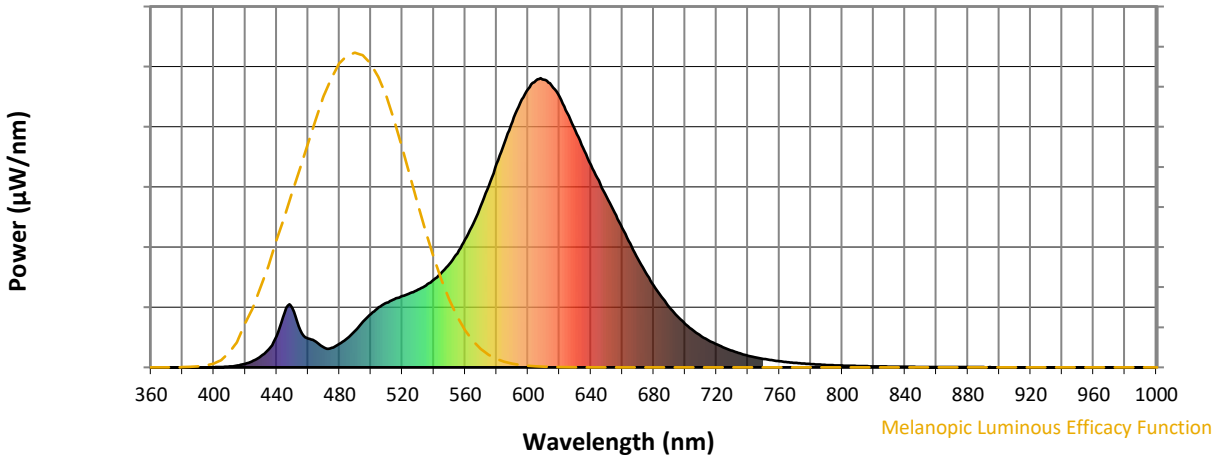


Scotopic Lumens: NR **S/P: 0.96**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.7**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

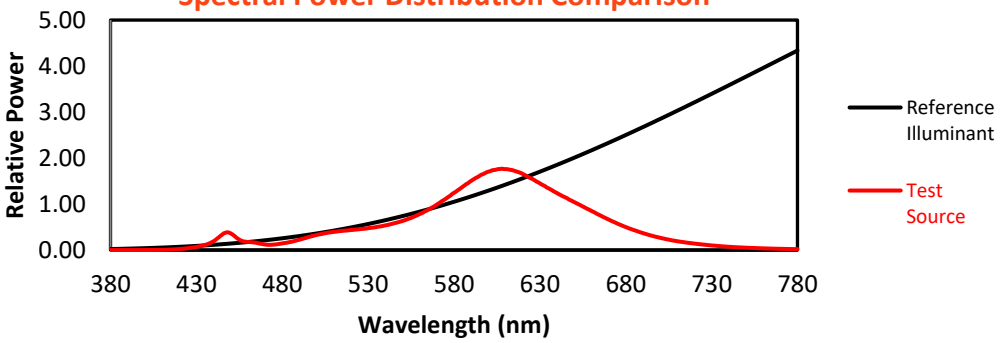
REPORT NUMBER: SP1-2501-332-7

TM-30-18

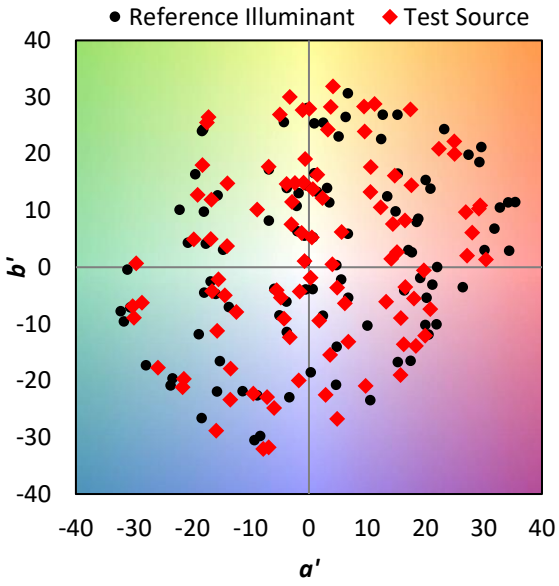
Summary

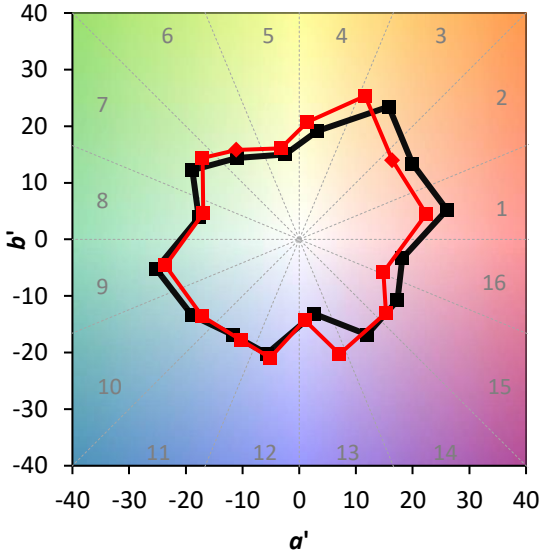
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

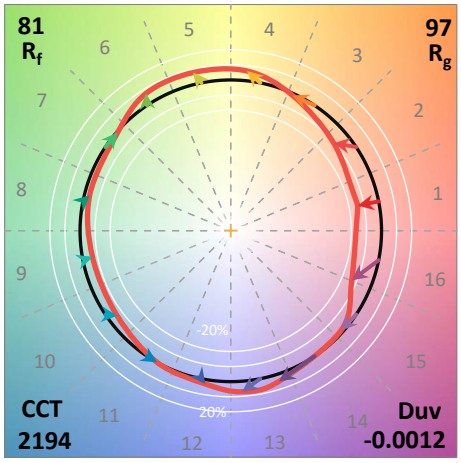
Spectral Power Distribution Comparison

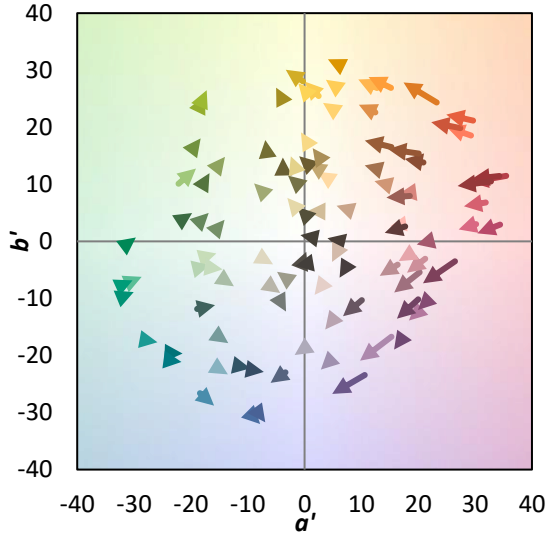


Color Vector Graphics







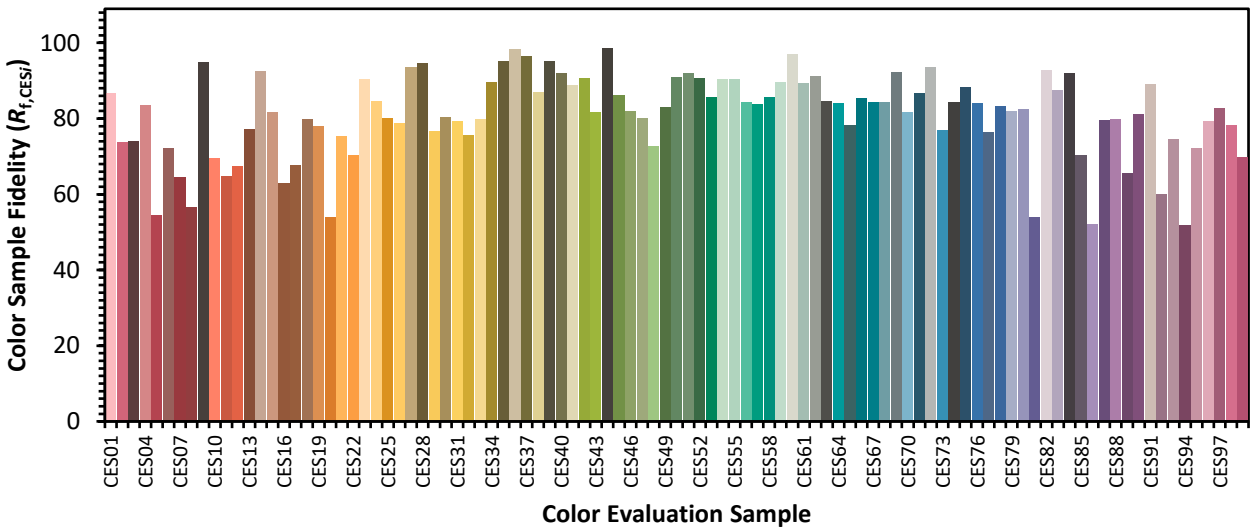


REPORT NUMBER: SP1-2501-332-7

TM-30-18

Individual Sample Fidelity Index ($R_{f,i}$)

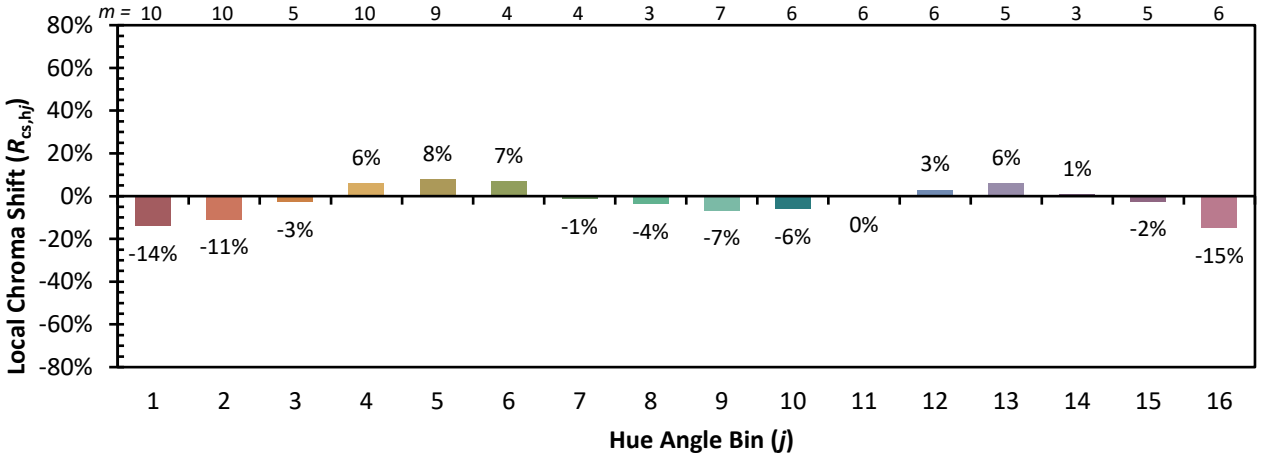
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 84	CES82 = 93
CES08 = 43	CES33 = 80	CES58 = 86	CES83 = 88
CES09 = 29	CES34 = 90	CES59 = 90	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 97	CES85 = 70
CES11 = 62	CES36 = 98	CES61 = 89	CES86 = 52
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 80
CES13 = 45	CES38 = 87	CES63 = 85	CES88 = 80
CES14 = 75	CES39 = 95	CES64 = 84	CES89 = 66
CES15 = 73	CES40 = 92	CES65 = 78	CES90 = 81
CES16 = 49	CES41 = 89	CES66 = 85	CES91 = 89
CES17 = 51	CES42 = 91	CES67 = 84	CES92 = 60
CES18 = 57	CES43 = 82	CES68 = 84	CES93 = 74
CES19 = 74	CES44 = 99	CES69 = 92	CES94 = 52
CES20 = 69	CES45 = 86	CES70 = 82	CES95 = 72
CES21 = 88	CES46 = 82	CES71 = 87	CES96 = 79
CES22 = 81	CES47 = 80	CES72 = 94	CES97 = 83
CES23 = 92	CES48 = 73	CES73 = 77	CES98 = 78
CES24 = 92	CES49 = 83	CES74 = 84	CES99 = 70
CES25 = 73	CES50 = 91	CES75 = 88	

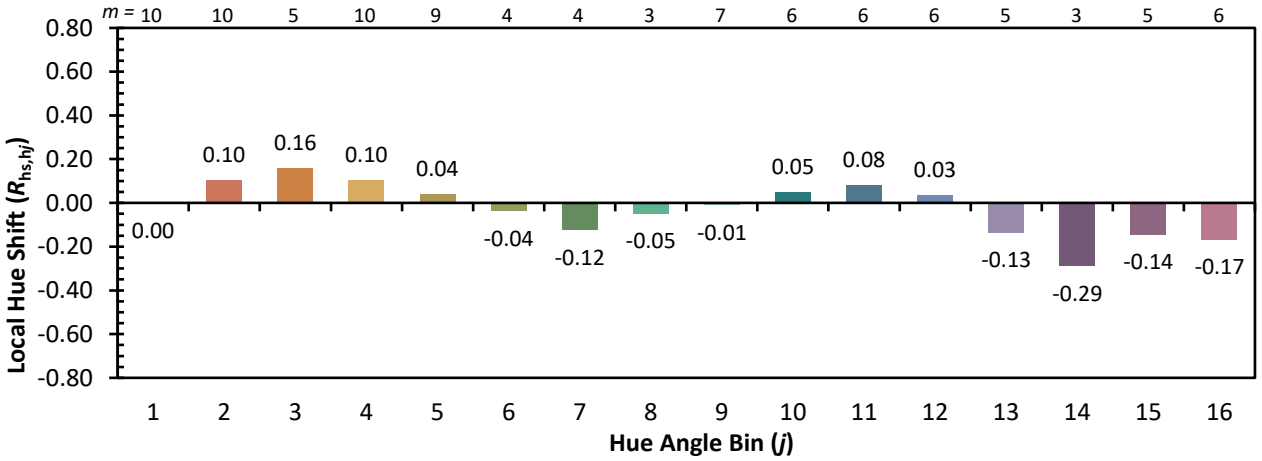


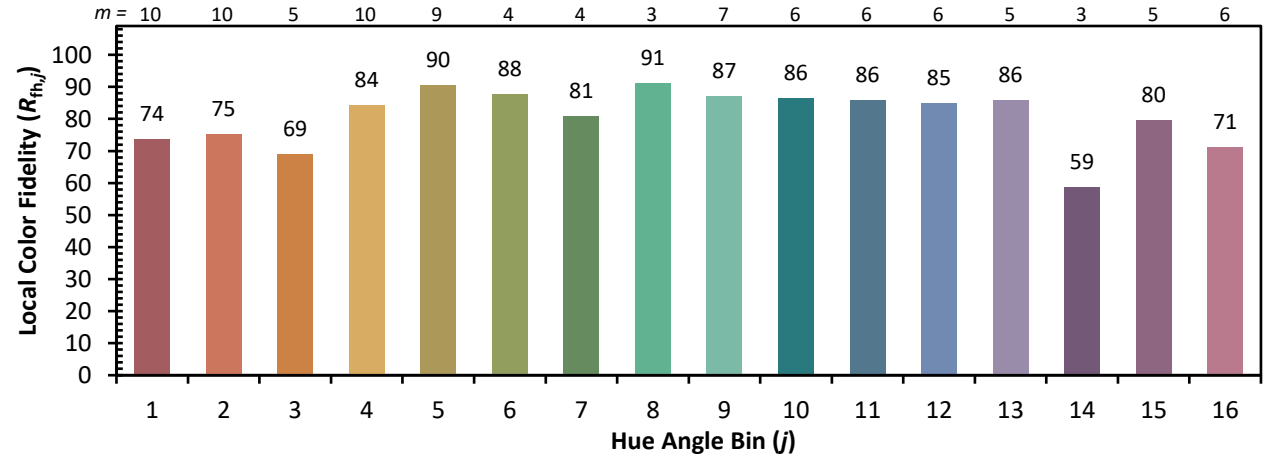
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Color Rendition by Hue-Angle Bin



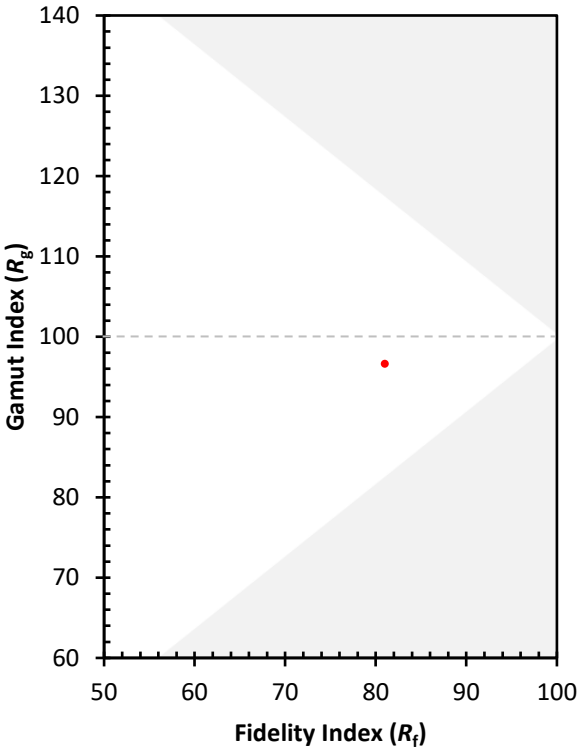


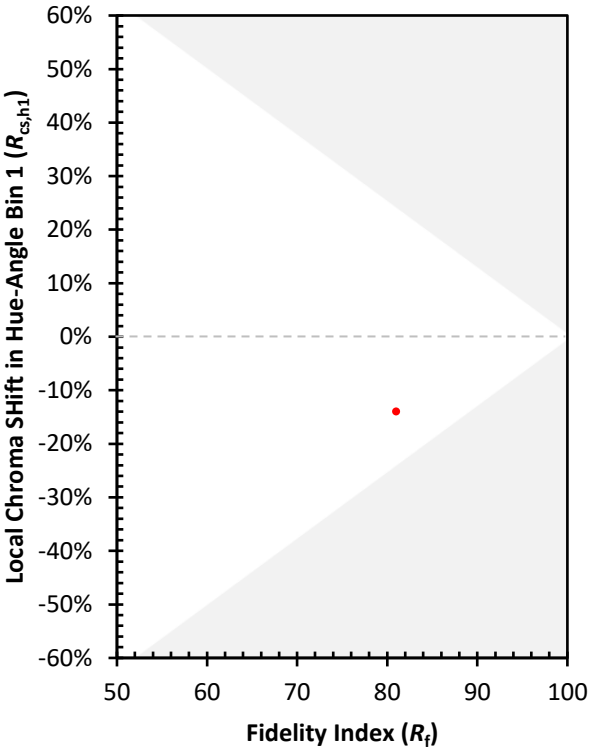


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Measure Comparisons





(END OF REPORT)